Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

October 30, 2015

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Amir W. Malek — No. C62397 — Exp. 9-30-17 — CIVIL — STATE OF CALIFORNIA

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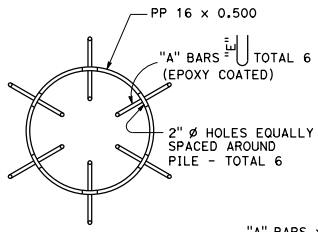
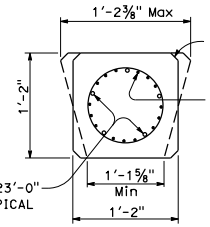
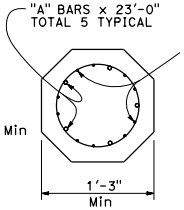


SECTION W-W

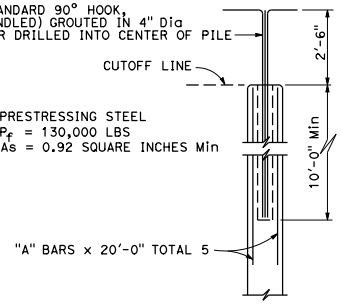
PP = Steel pipe pile



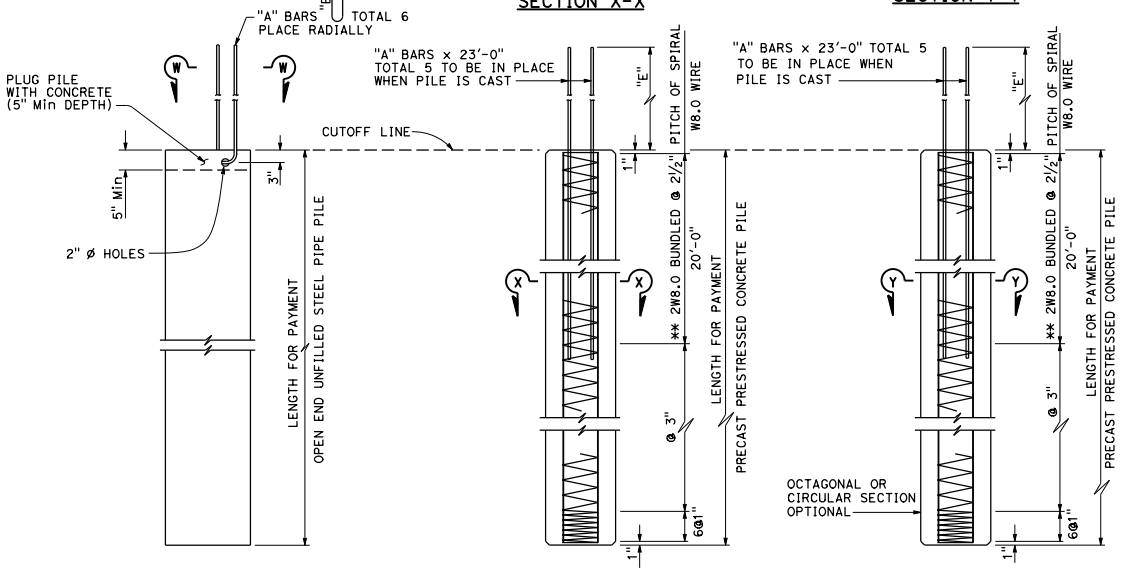
SECTION X-X



SECTION Y-Y



ALTERNATIVE PILE ANCHOR FOR PRESTRESSED PILE



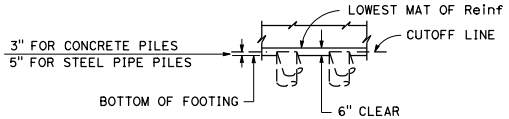
ALTERNATIVE "W"

ALTERNATIVE "X"

ALTERNATIVE "Y"

	REQUIRED NOMINAL RESISTANCE (TENSION) *	
	75 kips OR LESS	GREATER THAN 75 kips
"A" BARS	#6	#8
"E" DIMENSION	1'-8"	2'-8"

* See Pile Data Table on the Project Plans for Nominal Resistance (Tension) Requirements



PILE EMBEDMENT

DESIGN NOTES:

DESIGN CAPACITY

Compression = 200 kip (Service state)
= 400 kip (Nominal axial structural resistance)
Tension = 80 kip (Service state)
= 200 kip (Nominal axial structural resistance)

REINFORCED CONCRETE

f'_c = 4,000 psi
f_y = 60,000 psi

PRECAST PRESTRESSED PILES

P_f = Prestress Force (After losses)
Concrete Strength f'_c @ 28 days = 7,000 psi
f'_{ci} @ transfer = 4,000 psi

STEEL PIPE PILE

Fy (minimum yield strength) = 45,000 psi
Fu (minimum tensile strength) = 66,000 psi

NOTES:

1. Pile reinforcement extending into footing shall be hooked as required to provide clearance to top of footing. Piles shall be extended only with details shown on the Project Plans.
2. At the Contractor's option, alternative steel pipe with at least the diameter and wall thickness shown on these plans may be used. The diameter shall not exceed 1'-6".
3. Maximum cut-off length at the top of the Alternative "X" and Alternative "Y" piles is 10'-0".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PILE DETAILS CLASS 200

NO SCALE

B2-8